| FORM PTO-1449<br>INFORMATION DISCLOSURE STATEMENT | ATTORNEY DOCKET NO.<br>PU3680US3 | SERIAL NO.<br>T be assigned |
|---|---|---|
| | APPLICANT<br>Susan CHUBINSKAYA et al. | |
| | FILING DATE<br>Concurrently herewith | GROUP |

**U.S. PATENT DOCUMENTS**

| Examiner Initials | | Patent Number | Issue Date | Name | Class | Subclass | Filing Date If Appropriate |
|---|---|---|---|---|---|---|---|
| EM | 1. | 5,004,741 | 04/02/1991 | Evans et al. | | | |
| EM | 2. | 5,416,066 | 05/16/1995 | Kaneko et al. | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Continue on page ____

**FOREIGN PATENT DOCUMENTS**

| | | Document Number | Publication Date | Country | Class | Subclass | Translation Yes \| No |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Continue on page ____

**OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)**

| | | |
|---|---|---|
| EM | 3. | Billinghurst et al., "Enhanced cleavage of type II collagen by collagenases in osteoarthritic articular cartilage," *J. Clin. Invest.* 99:1534-1545 (1997). |
| | 4. | Bohm et al., "Structural and functional comparison of anchorin CII (cartilage annexin V) and muscle annexin V," *Arch Biochem Biophys* 314:64-74 (1994). |
| | 5. | Donnelly et al., "Annexins in the secretory pathway," *J. Cell. Molec. Life Sci.* 53:533-538 (1997). |
| | 6. | Fernandez et al., "The structure of anchorin CII, a collagen binding protein isolated from chondrocyte membrane," *Biol. Chem.* 263:5921-5925 (1988). |
| | 7. | Hofmann et al., "Interactions of benzodiazepine derivatives with annexins," *J. Biol. Chem.* 273(5):2885-2894 (1998). |
| | 8. | Huber et al., "Crystal and molecular structure of human annexin V after refinement," *J. Mol. Biol.* 223:683-704 (1992). |
| | 9. | King et al., "Absence of anchorin CII and impaired collagen binding in the swarm rat chondrosarcoma," *Orthop. Res. Soc. Trans.* 20:387 (1995). |
| | 10. | King et al., "Absence of cell-surface annexin V is accompanied by defective collagen matrix binding in the swarm rat chondrosarcoma," *J. Cell. Biochem.* 65:131-144 (1997). |
| | 11. | Koyano et al., "Collagen and proteoglycan production by bovine fetal and adult chondrocytes under low levels of calcium and zinc ions," *Connect Tiss Res* 34(3):213-225 (1996). |
| | 12. | Koyano et al., "Reduced levels of calcium block hypertrophy and degradation of cartilage and stimulate collagen synthesis in chicken tibial explants," *Orthop. Res. Soc. Trans.* 21:354 (1996). |
| | 13. | Koyono et al., "Quantitative and qualitative analysis of 3H-proline-labeled protein for the investigation of the collagen metabolism by rapid filtration in multiwell plates," *BioTechniques* 22:706-716 (1997). |
| | 14. | Liemann et al., "Three-dimensional structure of annexins," *J. Cell. Molec. Life Sci.* 53:516-521 (1997). |
| EM | 15. | Mallein-Gerin et al., "Proteoglycan core protein and type II collagen gene expressions are not correlated with cell shape changes during low density chondrocyte cultures," *Differentiation* 43:204-211 (1990). |

Continue on page 2

| EXAMINER Gregory L. Hobbs | DATE CONSIDERED 07/29/05 |
|---|---|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Express Mail Label No.
EV330916350US

| FORM PTO-1449<br>INFORMATION DISCLOSURE STATEMENT | ATTORNEY DOCKET NO.<br>PU3680US3 | SERIAL NO.<br>To be assigned |
|---|---|---|
| | APPLICANT<br>Susan CHUBINSKAYA et al. | |
| | FILING DATE<br>Concurrently herewith | GROUP |

**U.S. PATENT DOCUMENTS**

| Examiner Initials | | Patent Number | Issue Date | Name | Class | Subclass | Filing Date If Appropriate |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Continue on page ___

**FOREIGN PATENT DOCUMENTS**

| | | Document Number | Publication Date | Country | Class | Subclass | Translation Yes \| No |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Continue on page ___

**OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)**

| | | |
|---|---|---|
| GM | 16. | Mollenhauer et al., "Isolation and Characterization of a Collagen binding Glycoprotein from Chondrocyte Membranes," *EMBO J.* **2(1)**:45-50 (1983). |
| | 17. | Mollenhauer et al., "Role of anchorin CII, a 31,000-mol-wt membrane protein, in the interaction of chondrocytes with type II collagen." *J. Cell Biol.* **98**:1572-1578 (1984). |
| | 18. | Mollenhauer, "Annexins: what are they good for?," *J. Cell. Molec. Life Sci.* **53**:546-556 (1997). |
| | 19. | Mollenhauer et al., "," *Orthop. Res. Soc. Trans.* **23**:444 (1998). |
| | 20. | Mollenhauer et al., "Expression of anchorin CII (cartilage annexin V) in human young, normal adult, and osteoarthritis cartilage," *Histochem. Cytochem.* **47(2)**:209-220 (1999). |
| | 21. | Morgan et al., Annexin gene structures and molecular evolutionary genetics," *J. Cell. Molec. Life Sci.* **53**:508-515 (1997). |
| | 22. | Raynal et al., "Annexins: the problem of assessing the biological role for a gene family of multifunctional calcium-and phospholipid-binding proteins," *Biochem. Biophys. Acta* **1197**:63-93 (1994). |
| | 23. | Reid et al., "Heterogeneity of articular chondrocytes: differential binding of collagen and response to collagen in suspension culture," *Orthop. Res. Soc. Trans.* **21**:312 (1996). |
| | 24. | Reutelingsperger et al., "Annexin V, the regulator of phosphatidylserine-catalyzed inflammation and coagulation during apoptosis," *J. Cell. Molec. Life Sci.* **53**:527-532 (1997). |
| | 25. | Rothhut, "Participation of annexins in protein phosphorylation," *J. Cell. Molec. Life Sci.* **53**:522-526 (1997). |
| | 26. | Torzilli et al., "Effects of misoprostol and prostaglandin E2 on proteoglycan biosynthesis and loss in unloaded and loaded articular cartilage explants," *Prostaglandins* **52**:157-173 (1996). |
| | 27. | von der Mark et al., "Anchorin CII, a type II collagen binding glycoprotein from chondrocyte membranes" *Ann. NewYork Acad. Sci.,* **469**:214-223 (1985). |
| GM | 28. | Von der Mark et al., "Annexin V interactions with collagen," *Cell. Mol. Life Sci.* **53**:539-545 (1997). |

Continue on page ___

| EXAMINER Gregory Donahue | DATE CONSIDERED 07/29/05 |
|---|---|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.